

R E M A R K S

It is respectfully requested that the Examiner enter and consider the changes made in the claims which are indicated in the Listing of Claims set forth in Appendix I attached to this paper. Accordingly, Claims 41 to 48 are canceled in light of the Examiner's withdrawal of those claims from reconsideration in this application for being drawn to an independent and distinct invention. Favorable action is solicited.

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees, to Deposit Account No. 11.0345. Please credit any excess fees to such deposit account.

Respectfully submitted,

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Encl.: THE LISTING OF CLAIMS (Appendix I)

HBK/BAS

A P P E N D I X I:

THE LISTING OF CLAIMS (version with markings):

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (canceled)
10. (canceled)
11. (canceled)
12. (canceled)
13. (canceled)
14. (canceled)
15. (canceled)
16. (canceled)
17. (canceled)
18. (canceled)
19. (canceled)
20. (canceled)
21. (previously presented) A hydrogenation catalyst comprising, as catalytically effective component, a composition consisting of
 - (a) iron or a compound based on iron or a mixture thereof,
 - (b) from 0.001 to 0.3% by weight based on (a) of a promoter based on 2, 3, 4 or 5 elements selected from the group consisting of aluminum, silicon, zirconium, titanium and vanadium,

- (c) from 0 to 0.3% by weight based on (a) of a compound based on an alkali and/or alkaline earth metal, and
- (d) from 0.001 to 1% by weight based on (a) of manganese.
22. (previously presented) The catalyst defined in claim 21, wherein the catalytically effective component is obtained by reduction with or without subsequent passivation of a magnetite.
23. (previously presented) The catalyst defined in claim 21, wherein the catalytically effective component is obtained by precipitating precursors of constituents (a), (b), (d) and optionally (c) in the presence or absence of support materials.
24. (previously presented) The catalyst defined in claim 21, which is obtained by impregnating a support with a solution of constituents (a), (b), (d) and optionally (c).
25. (previously presented) The catalyst defined in claim 21, which is obtained by spraying constituents (a), (b), (d) and optionally (c) onto a support.
26. (previously added) The catalyst defined in claim 21, which has a BET surface area of from 3 to 20 m²/g, a total pore volume of from 0.05 to 0.2 mL/g, an average pore diameter of from 0.03 to 0.1 μm and a 0.01 to 0.1 μm pore volume fraction within the range from 50 to 70%.
27. (previously presented) The catalyst defined in claim 21, wherein the promoter elements (b) are selected from aluminum, silicon and titanium.
28. (previously presented) The catalyst defined in claim 21, wherein constituent (c) is based on magnesium and/or calcium.
29. (previously presented) The catalyst defined in claim 21, wherein constituent (c) is present in an amount of from 0.01 to 0.2% by weight based on (a).
30. (previously presented) The catalyst defined in claim 21, wherein constituent (c) is present in an amount of from 0.01 to 0.1% by weight based on (a).
31. (previously presented) The catalyst defined in claim 21, wherein constituent (d) is present in an amount of from 0.001 to 0.3% by weight based on (a).

32. (previously presented) The catalyst defined in claim 21, wherein constituent (d) is present in an amount of from 0.01 to 0.2% by weight based on (a).
33. (previously presented) A hydrogenation catalyst consisting essentially of a catalytically effective component and a support material, wherein the catalytically effective component is a composition consisting of
- (a) iron or a compound based on iron or a mixture thereof,
 - (b) from 0.001 to 0.3% by weight based on (a) of a promoter based on 2, 3, 4 or 5 elements selected from the group consisting of aluminum, silicon, zirconium, titanium and vanadium,
 - (c) from 0 to 0.3% by weight based on (a) of a compound based on an alkali and/or alkaline earth metal, and
 - (d) from 0.001 to 1% by weight based on (a) of manganese.
34. (previously presented) The catalyst defined in claim 33, wherein the catalytically effective component is obtained by reduction with or without subsequent passivation of a magnetite.
35. (previously presented) The catalyst defined in claim 33, which is obtained by precipitating precursors of constituents (a), (b), (d) and optionally (c) in the presence of the support materials.
36. (previously presented)⁵ The catalyst defined in claim 33, which is obtained by impregnating the support with a solution of constituents (a), (b), (d) and optionally (c).
37. (previously presented) The catalyst defined in claim 33, which is obtained by spraying constituents (a), (b), (d) and optionally (c) onto the support.
38. (previously added) The catalyst defined in claim 33, which has a BET surface area of from 3 to 20 m²/g, a total pore volume of from 0.05 to 0.2 mL/g, an average pore diameter of from 0.03 to 0.1 μ m and a 0.01 to 0.1 μ m pore volume fraction within the range from 50 to 70%.
39. (previously presented) The catalyst defined in claim 33, wherein constituent (c) is present in an amount of from 0.01 to 0.2% by weight based on (a).

40. (previously presented) The catalyst defined in claim 33, wherein constituent (d) is present in an amount of from 0.001 to 0.3% by weight based on (a).

41. (canceled)

42. (canceled)

43. (canceled)

44. (canceled)

45. (canceled)

46. (canceled)

47. (canceled)

48. (canceled)